

Docket No.  
FTS9-2001-0168US1

## Declaration and Power of Attorney For Patent Application

### English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled  
**FINE-PITCH DEVICE LITHOGRAPHY USING A SACRIFICIAL HARDMASK**

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as United States Application No. or PCT International  
Application Number \_\_\_\_\_  
and was amended on \_\_\_\_\_  
(if applicable)

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Prior Foreign Application(s)

Priority Not Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/>
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I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

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Joseph P. Abate, Registration No. 30,328;  
Jay H. Anderson, Registration No. 38,371;  
Ira D. Blecker, Registration No. 29,894;  
Steven Capella, Registration No. 33,086;  
Susan M. Murray, Registration No. 38,252;  
Daryl K. Neff, Registration No. 38,253;  
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all of INTERNATIONAL BUSINESS MACHINES  
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2070 Route 52  
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Direct Telephone Calls to: (name and telephone number)  
Jay H. Anderson, Reg. No. 38,371, (845)894-3667

Full name of sole or first inventor

Timothy J. Dalton

Sole or first inventor's signature

Residence

72 Sarah Bishop Road, Ridgefield, CT 06877

Citizenship

USA

Post Office Address

72 Sarah Bishop Road, Ridgefield, CT 06877

Full name of second inventor, if any

Minakshisundaran B. Anand

Second inventor's signature

Date

Residence

19264 Circle Gate Dr. #102, Germantown, MD 20874

Citizenship

India

Post Office Address

19264 Circle Gate Dr. #102, Germantown, MD 20874

Full name of third inventor, if any

**Michael D. Armac st**

Third inventor's signature

Date

Residence

**6577 Springpath Lane, San Jose, CA 95120**

Citizenship

**USA**

Post Office Address

**6577 Springpath Lane, San Jose, CA 95120**

Full name of fourth inventor, if any

**Shyng-Tsong Chen**

Fourth inventor's signature

Date

Residence

**111 Cornwall Meadows, Patterson, NY 12563**

Citizenship

**USA**

Post Office Address

**111 Cornwall Meadows, Patterson, NY 12563**

Full name of fifth inventor, if any

**Stephen M. Gates**

Fifth inventor's signature

Date

Residence

**22 Inningwood Road, Ossining, NY 10562**

Citizenship

**USA**

Post Office Address

**22 Inningwood Road, Ossining, NY 10562**

Full name of sixth inventor, if any

**Stephen E. Grecco**

Sixth inventor's signature

Date

Residence

**77 Harden Drive, LaGrangeville, NY 12540**

Citizenship

**USA**

Post Office Address

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Full name of seventh inventor, if any

**Simon M. Karecki (deceased), by Anna Karecki (administratrix)**

Seventh inventor's signature

Date

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Full name of eighth inventor, if

**Satyanarayana V. Nitta**

Eighth inventor's signature

Date

Residence

**118 Roosevelt Drive, Poughquag, NY 12570**

Citizenship

**India**

Post Office Address

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Full name of ninth inventor, if any

Ninth inventor's signature

Date

Residence

Citizenship

Post Office Address

Full name of tenth inventor, if any

Tenth inventor's signature

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Full name of sole or first inventor

**Timothy J. Dalton**

Sole or first inventor's signature

Date

Residence

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**USA**

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Full name of second inventor, if any

**Minakshisundaran B. Anand**

Second inventor's signature

*M. B. Anand*

Date

*12/21/2001*

Residence

**19264 Circle Gate Dr. #102, Germantown, MD 20874**

Citizenship

**India**

Post Office Address

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Full name of third inventor, if any

**Michael D. Armacost**

Third inventor's signature

Date

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**6577 Springpath Lane, San Jose, CA 95120**

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Full name of fourth inventor, if any

**Shyng-Tsong Chen**

Fourth inventor's signature

Date

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Full name of sole or first inventor

**Timothy J. Dalton**

Sole or first inventor's signature

Date

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Full name of second inventor, if any

**Minakshisundaran B. Anand**

Second inventor's signature

Date

Residence

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Citizenship

**India**

Post Office Address

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Full name of third inventor, if any

**Michael D. Armacost**

Third inventor's signature

*Michael D. Armacost*

Date

*1/9/02*

Residence

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Citizenship

**USA**

Post Office Address

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Full name of fourth inventor, if any

**Shyng-Tsong Chen**

Fourth inventor's signature

Date

Residence

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Fifth inventor's signature

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2004-01-01 09:00:00

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**Satyanarayana V. Nitta**

Eighth inventor's signature

Date

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Ninth inventor's signature

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 Eugene I. Shkurko, Registration No. 36,678  
 Harold Huberfeld, Registration No. 26,665  
 Todd M. C. Li, Registration No. 45,554  
 all of INTERNATIONAL BUSINESS MACHINES CORPORATION;  
 John E. Hoel, Registration No. 26,279  
 Christopher A. Hughes, Registration No. 26,914  
 Edward A. Pennington, Registration No. 32,588  
 Joseph C. Redmond, Jr., Registration No. 18,753  
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Full name of sole or first inventor

**Timothy J. Dalton**

Sole or first inventor's signature

Date

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**Minakshisundaran B. Anand**

Second inventor's signature

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**Shyng-Tsong Chen**

Fourth inventor's signature

Date

12/07/2001

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Fifth inventor's signature

Date

12/10/01

Residence

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Full name of sixth inventor, if any

**Stephen E. Greco**

Sixth inventor's signature

Date

12-13-01

Residence

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Full name of seventh inventor, if any  
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Seventh inventor's signature

Date

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Citizenship

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**152 Monitor Street, Apt. 3L, Brooklyn, NY 11222**

Full name of eighth inventor, if  
**Satyanarayana V. Nitta**

Eighth inventor's signature

Date

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**118 Roosevelt Drive, Poughquag, NY 12570**

Citizenship

**India**

Post Office Address

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Full name of ninth inventor, if any

Ninth inventor's signature

Date

Residence

Citizenship

Post Office Address

Full name of tenth inventor, if any

Tenth inventor's signature

Date

Residence

Citizenship

Post Office Address

2025-01-10 10:00:00

Docket No.  
FIS9-2001-0168US1

# Declaration and Power of Attorney For Patent Application

## English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**FINE-PITCH DEVICE LITHOGRAPHY USING A SACRIFICIAL HARDMASK**

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as United States Application No. or PCT International

Application Number \_\_\_\_\_

and was amended on \_\_\_\_\_

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status)  
(patented, pending, abandoned)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status)  
(patented, pending, abandoned)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status)  
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

Joseph P. Abate, Registration No. 30,328;  
 Jay H. Anderson, Registration No. 38,371;  
 Ira D. Blecker, Registration No. 29,894;  
 Steven Capella, Registration No. 33,086;  
 Susan M. Murray, Registration No. 38,252;  
 Daryl K. Neff, Registration No. 38,253;  
 Eric W. Petraske, Registration No. 28,459;  
 William P. Skladony, Registration No. 33,787;  
 H. Daniel Schnurmann, Registration No. 35,791;  
 Tiffany L. Townsend, Registration No. 43,199;  
 Margaret A. Pepper, Registration No. 45,008

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Full name of sole or first inventor

**Timothy J. Dalton**

Sole or first inventor's signature

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Full name of second inventor, if any

**Minakshisundaran B. Anand**

Second inventor's signature

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Full name of fourth inventor, if any <b>Shyng-Tsong Chen</b>	
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Post Office Address <b>111 Cornwall Meadows, Patterson, NY 12563</b>	

Full name of fifth inventor, if any <b>Stephen M. Gates</b>	
Fifth inventor's signature	Date
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Full name of sixth inventor, if any <b>Stephen E. Greco</b>	
Sixth inventor's signature	Date
Residence <b>77 Harden Drive, LaGrangeville, NY 12540</b>	
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Post Office Address <b>77 Harden Drive, LaGrangeville, NY 12540</b>	



Full name of seventh inventor, if any  
**Simon M. Karecki (deceased), by Anna Karecki (administratrix)**

Seventh inventor's signature

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Full name of eighth inventor, if

**Satyanarayana V. Nitta**

Eighth inventor's signature

Date

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Full name of ninth inventor, if any

Ninth inventor's signature

Date

Residence

Citizenship

Post Office Address

Full name of tenth inventor, if any

Tenth inventor's signature

Date

Residence

Citizenship

Post Office Address